

1           108. The apparatus of claim 102, further comprising a mechanical  
2   biasing element carried by the support member and coupled to the first and second  
3   electrodes.

1           109. An apparatus for applying electrical stimulation to a cortical  
2   region of a brain of a patient, comprising:  
3           an implantable support member configured to be implanted into the  
4   patient proximate to a skull of the patient;  
5           a mechanical biasing element carried by the support member, the  
6   mechanical biasing element being elastically deformable; and  
7           a first electrode and a second electrode, wherein the biasing element is  
8   configured to press the first and second electrodes against the brain of the patient.

1           110. The apparatus of claim 109 wherein the biasing element  
2   comprises a compressible foam.

1           111. The apparatus of claim 109 wherein the biasing element  
2   comprises a spring.

1           112. The apparatus of claim 109 wherein the biasing element  
2   comprises an inflatable bladder.

1           113. The apparatus of claim 109, further comprising a pulse system  
2   carried by the support member.

1           114. The apparatus of claim 113 wherein:  
2           the support member comprises a housing configured to be implanted at  
3   least partially within the skull, the housing having a cavity; and

4 the pulse system comprises a power supply and a pulse generator within  
5 the cavity of the housing.

1 115. The apparatus of claim 113 wherein:  
2 the support member comprises a housing configured to be implanted at  
3 least partially within the skull, the housing having a cavity; and  
4 the pulse system comprises a pulse generator within the cavity of the  
5 housing.

1 116. The apparatus of claim 113 wherein:  
2 the support member comprises a housing configured to be implanted at  
3 least partially within the skull, and the housing has a cavity; and  
4 the pulse system comprises a pulse delivery system within the cavity of  
5 the housing, the pulse delivery system having a receiver for receiving a pulse of  
6 broadcast energy generated by an external pulse generator and a pulse former for  
7 converting the broadcast energy into an electrical pulse within the support member.

1 117. The apparatus of claim 113 wherein:  
2 the support member comprises a housing configured to be implanted at  
3 least partially within the skull, and the housing has a cavity;  
4 the pulse system comprises a pulse delivery system within the cavity of  
5 the housing, the pulse delivery system having a magnetic pickup coil wrapped around  
6 the core for receiving a pulse of magnetic energy generated by an external pulse  
7 generator; and  
8 the first and second electrodes are electrically coupled to the pulse  
9 system within the housing.

1           118. The apparatus of claim 113 wherein:  
2           the support member comprises a housing configured to be implanted at  
3           least partially within the skull, and the housing has a cavity;  
4           the pulse system comprises a pulse delivery system within the cavity of  
5           the housing, the pulse delivery system having an antenna capable of receiving RF  
6           energy and a pulse former coupled to the antenna; and  
7           the first and second electrodes are electrically coupled to the pulse  
8           system within the housing.

1           119. The apparatus of claim 109, further comprising an external  
2           controller having a power supply, a pulse generator and a pulse transmitter, wherein  
3           the external controller is electrically coupled to the electrodes by a cable.

1           120. The apparatus of claim 109, further comprising:  
2           an external controller having a power supply, a pulse generator and a  
3           pulse transmitter, wherein the external controller generates a pulse of broadcast  
4           energy; and  
5           a pulse system carried by the support member separate from the external  
6           controller, wherein the pulse system is capable of converting the broadcast energy  
7           from the external controller into a corresponding electrical pulse; and  
8           wherein the electrodes are coupled to the pulse system.

1           121. An apparatus for applying electrical stimulation to a cortical  
2           region of a brain of a patient, comprising:  
3           an implantable support member configured to be implanted into the  
4           patient proximate to a skull of the patient;  
5           a pulse system within the support member;  
6           a biasing element carried by the support member; and